

# Practical Power System Operation (IEEE Press Series on Power Engineering)

By Ebrahim Vaahedi

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
### Power system operation from an operator's perspective

Power systems are operated with the primary objectives of safety, reliability, and efficiency. *Practical Power System Operation* is the first book to provide a comprehensive picture of power system operation for both professional engineers and students alike. The book systematically describes the operator's functions, the processes required to operate the system, and the enabling technology solutions deployed to facilitate the processes. In his book, Dr. Ebrahim Vaahedi, an expert practitioner in the field, presents a holistic review of:

- The current state and workings of power system operation
- Problems encountered by operators and solutions to remedy the problems
- Individual operator functions, processes, and the enabling technology solutions
- Deployment of real-time assessment, control, and optimization solutions in power system operation
- Energy Management Systems and their architecture
- Distribution Management Systems and their architecture
- Power system operation in the changing energy industry landscape and the evolving technology solutions

Because power system operation is such a critical function around the world, the consequences of improper operation range from financial repercussions to societal welfare impacts that put people's safety at risk. *Practical Power System Operation* includes a step-by-step illustrated guide to the operator functions, processes, and decision support tools that enable the processes. As a bonus, it includes a detailed review of the emerging technology and operation solutions that have evolved over the last few years. Written to the standards of higher education and university curriculums, *Practical Power System Operation* has been classroom tested for excellence and is a must-read for anyone looking to learn the critical skills they need for a successful career in power system operations.

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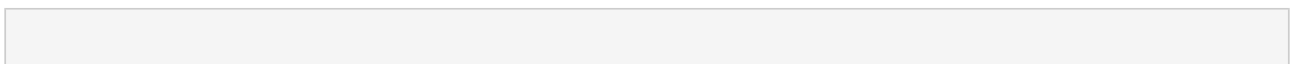
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### **Editorial Review**

About the Author

**DR. EBRAHIM VAAHEDI** has over thirty years of power industry experience in power system operation and power system planning, as well as the development and deployment of decision support tools. He currently leads the Operations Technology Department at BC Hydro, where he is responsible for Operations Technology strategy development and solution delivery. He obtained his BSc from Sharif University of Technology, and MSc and PhD degrees from Imperial College, University of London. As an IEEE Fellow, Dr. Vaahedi fulfills multiple roles for the IEEE. He is currently an Officer of the Power System Operation Committee and recently served as the Technical Chair of the IEEE 2013 PES General Meeting in Vancouver. He is an Adjunct Professor at the University of British Columbia and Sharif University of Technology. He has authored over 100 papers and won the IEEE PES Prize Paper award in 2004.

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